

METHOD FOR PRODUCING LOCAL ALUMINIDE COATING

Abstract of the Invention

Method for localized aluminide coating applied for the first time or as repair includes creating a contained space by disposing coating material comprising an aluminum source and a halide activator at least partially over and in an out-of-contact relation with a target surface of a metal substrate. Heating the substrate to a temperature to cause the aluminum source to react with the halide activator and the substrate results in diffusion aluminide coating of the targeted surface. An article comprising a target surface of a metal substrate, said surface bounding a contained space, and a coating tape comprising an aluminum source and a halide activator and disposed in an out-of-contact relation at least partially over the contained space whereby, when the substrate is heated to a temperature to cause the halide activator to react with the aluminum source, a diffusion aluminide coating is formed on the target surface.